FY 2005 Distributed Centers Project Selections

The Deputy Under Secretary of Defense (Science & Technology) has announced selection of five high performance computing (HPC) projects to receive HPC resources from the Department of Defense (DoD) High Performance Computing Modernization Program (HPCMP). These projects will be the recipient of HPC systems in FY 2005. The systems will be applied to local, mission-specific, and technical challenges identified in each center's proposal. The five project awards announced today are indicative of the breadth of support to Department of Defense programs provided by the High Performance Computing Modernization Program's distributed centers initiative.

The Arnold Engineering Development Center and the Air Force Seek Eagle Office will use high performance computing (HPC) resources for the integration of computational modeling techniques with ground and flight test data to decrease delivery time and cost of the weapon system development and fielding, thus improving the responsiveness to the warfighter's operational needs.

The Maui High Performance Computing Center will use high performance computing resources to expand the Air Force Research Laboratory/Directed Energy Maui Space Surveillance System (MSSS) imaging research efforts focused on advanced, high-resolution, scalable image reconstruction algorithm development and deployment.

The Naval Undersea Warfare Center, Newport Division will use high performance computing resources to effect capability improvements and upgrades to the US Navy's only real-time torpedo Hardware-in-the-Loop simulation capability supporting all Heavyweight and Lightweight torpedo variants.

The Naval Surface Warfare Center, Carderock Division will use high performance computing resources to develop an environment for analyzing complex fluid flow and fluid/structure interaction phenomena associated with ships and their components which will enable rapid decision making during the early stages of ship and submarine design.

The Office of the Secretary of Defense, Program Analysis and Evaluation, will use high performance computing resources to enable the Joint Warfare System (JWARS) user community to use JWARS to support operational planning and execution, force assessment studies, system trade analyses, wargame support, experimentation and concept/doctrine development. This capability will provide all JWARS users a convenient and more importantly a cost effective computing resource paving the way for this futuristic campaign level model to enhance the warfighter's capability. This HPC system will be fielded and supported at the NAVAIR Systems Command in Patuxent River, MD.

The DoD High Performance Computing Modernization Program was established to enable the United States to maintain its technological supremacy over its adversaries in weapon systems design and foster the flow of this technology into warfighting support systems. The five HPC projects announced today are expected to significantly contribute to DoD's technological goals.